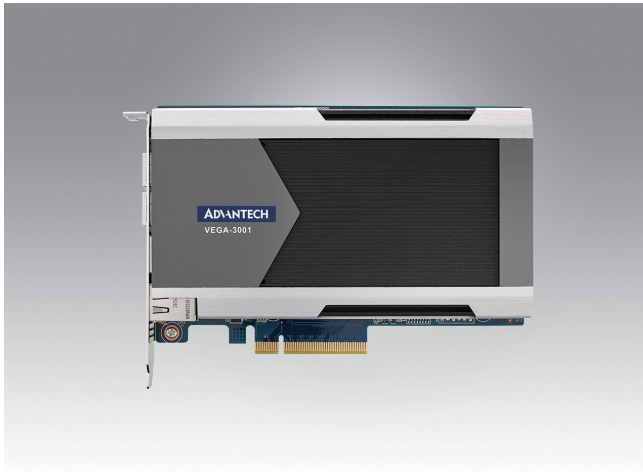


VEGA-3001

SONY LLVC Video-over-IP PCIe Card



Features

- Support Sony Low Latency Video Coding (LLVC) to compress and transmit live video, audio and metadata over single 10GbE link
- Live AV transmission over IP Network, High-QoS, Low-latency (under 20 ms) supported
- Support one 4Kp60, two 1080p60 or four 1080i60 data streams
- Forward Error Correction (FEC) supported
- Send or receive raw video through PCIe interface to host computer
- Single configurable module allows operating as a transmitter or receiver
- Single slot, half-length PCIe x8 card
- Low operating power consumption (<19 Watt)

Introduction

VEGA-3001 leverages Sony Low Latency Video Coding (LLVC) to compress and transmit live 4Kp60 video, audio and metadata over a single 10GbE link. As a standard PCI Express interface card, VEGA-3001 further accelerates the fusion of the broadcasting industry and the PC/IT industry by allowing UHD video streaming interfaces to be integrated into well-established server architectures, thus facilitating cloud-based broadcast workflows.

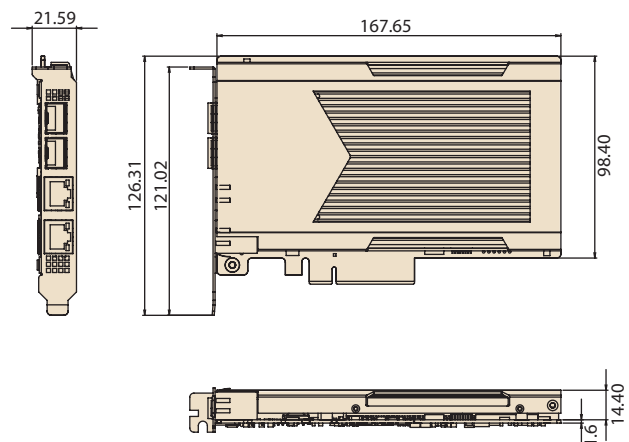
The VEGA-3001 Video Interface Card overcomes SDI limitations in the transition to 4K workflows by delivering low latency and noise-free switching of HD and UHD media on standard IP networks. The visually-lossless compression used in the LLVC block is used to one 4Kp60, two 1080p60 or four 1080i data streams into a convenient 10GbE Ethernet link. Replacing purpose-specific SDI equipment with payload-agnostic IP networks, VEGA-3001 utilizes Sony IP Live Production technology to packetize HD and UHD video streams from the host into IP datagrams that can be carried along with audio and control data over commercial-off-the-shelf IP cables, switchers and routers.

Specification

Video Specification	Number of Channels	1ch 4Kp60 (2ch 1080p60 and 4ch 1080i60 are available upon request)
	Video Format	YUV422, 10-bit, 3840x2160, 50p/59.94p/60p YUV422, 10-bit, 4096x2160, 50p/59.94p/60p
Audio Format	Number of Channels	16ch/ Link
	Bit Width	24bit
	Sampling Frequency	48KHz
File-based I/O		PCIe Gen2 x8
10G Ethernet Interfaces	Forward Error Correction	Level A and Level B FEC (steam basis)
	Connectors	SFP+ Module
Giga Ethernet Interfaces		10/100/1000 Mbps LAN port; RJ-45 connector (This interface is reserved for future upgrade)
Latency		20 ms
Internet protocol		Support IPV4 static IP setting
Power Consumption		<19W
Form Factor		Standard Half-Length PCIe Card

Dimension

Unit: mm



Ordering Information

Part Number	Description
VEGA-3001-F000E	SONY LLVC 4Kp60 Video-over-IP PCIe Card